

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (previously presented): An ac generator comprising a stator and a rotor:

said stator being disposed within a bracket having an exhaust window and generating a three-phase ac current by a rotating field of said rotor; and

said rotor comprising a rotor coil for generating a magnetic flux, a pole core composed of first and second pole core members disposed so as to cover said rotor coil and having pawl-shaped magnetic poles projecting in staggered relationship, a plurality of permanent magnets disposed on both side surfaces of said pawl-shaped magnetic poles for reducing the leakage of the magnetic flux between the side surfaces of the adjacent pawl-shaped magnetic poles, and a fan mounted to each of opposite axial ends of the rotor for cooling a heat-generating member heated due to a generator output current;

said permanent magnets being permanent magnets of samarium-iron alloy containing titanium (Ti) and boron (B),

wherein said permanent magnets are supported by corrosion-resistive holding members ~~surrounding said permanent magnets,~~

wherein ~~at least one portion of~~ resin is located between at least one a-side opposing to of
at least one of the pawl-shaped magnetic poles ~~side surfaces of said permanent magnets is resin-~~
~~coated~~ and at least one of the permanent magnets, and

wherein said permanent magnets are independently attached to each of the magnetic poles of said first and second pole core members.

2. (original): The ac generator as claimed in claim 1, wherein said permanent magnets are plastic magnets made of magnet powder bonded together by a resin.

3. (original): The ac generator as claimed in claim 1, wherein said permanent magnets are bonded magnets of $\text{Sm}_{8.2} - \text{Fe}_{75.6} - \text{Ti}_{2.3} - \text{B}_{0.9} - \text{N}_{13}$.

Claims 4-6 (Canceled).

7. (original): The ac generator as claimed in claim 1, wherein said first and second pole core members have on their outer circumferences restricting means for restricting the displacement of said magnetic poles in the radial direction due to a centrifugal force during the rotor rotation.

8. (previously presented): The ac generator as claimed in claim 7, wherein said restricting means is only disposed in the vicinity of tip portions and root portions of the magnetic poles of said first and second pole core members to restrict the displacement of said pole tips.

9. (original): The ac generator as claimed in claim 7, wherein said restricting means is a corrosion-resistant annular member circumferentially extending over the entire circumference of said rotor.

10. (currently amended): An ac generator comprising a stator and a rotor:

said stator being disposed within a bracket having an exhaust window and generating a three-phase ac current by a rotating field of said rotor; and

said rotor comprising a rotor coil for generating a magnetic flux, a pole core composed of first and second pole core members disposed so as to cover said rotor coil and having pawl-shaped magnetic poles projecting in staggered relationship, a plurality of permanent magnets disposed on and connected to both side surfaces of said pawl-shaped magnetic poles for reducing the leakage of the magnetic flux between the side surfaces of the adjacent pawl-shaped magnetic poles, and a fan mounted to each of opposite axial ends of the rotor for cooling a heat-generating member heated due to a generator output current;

said permanent magnets being permanent magnets of samarium-iron alloy containing titanium (Ti) and boron (B),

wherein said permanent magnets are supported by corrosion-resistive holding members ~~surrounding said permanent magnets,~~

wherein resin is located between at least one side of at least one of the pawl-shaped magnetic poles and at least one of the permanent magnets~~at least one portion of a side opposing to the pawl-shaped magnetic pole side surfaces of said permanent magnets is resin coated, and~~

wherein said permanent magnets are independently attached to each of the magnetic poles of said first and second pole core members.